

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PC-9309	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/JP2004/014135	International filing date (day/month/year) 21/09/2004	(Earliest) Priority Date (day/month/year) 22/09/2003
Applicant SHOWA DENKO PLASTIC PRODUCTS CO., LTD.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☒ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/014135

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08L23/12 B32B27/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08L B32B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	① WO 2004/071375 A (IWASAKI TOSHIHARU ; KOTANI MASATAKA (JP); SHOWA DENKO PLASTIC PRODUCTS) 26 August 2004 (2004-08-26) page 19, paragraphs 3,4 page 34, last paragraph claims; examples	1-18
X	② EP 0 708 146 A (SHOWA DENKO KK) 24 April 1996 (1996-04-24) page 2, line 38 - page 3, line 38 page 7, line 51 - line 53 page 9, line 44 - line 49 claims figures examples	1-18
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

21 January 2005

Date of mailing of the international search report

27/01/2005

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/014135

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	(3) WO 03/055943 A (KAGEYAMA YOHEI ; KOTANI MASATAKA (JP); SHOWA DENKO PLASTIC PRODUCTS C) 10 July 2003 (2003-07-10) page 8, last line - page 10, line 9 page 12, paragraph 3 - page 13, paragraph 1 page 18, paragraph 1 -----	1-18
X	(4) EP 1 236 769 A (BOREALIS TECH OY) 4 September 2002 (2002-09-04) paragraphs '0030!', '0031!; claims; examples -----	1-4, 9-11,18

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/014135

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2004071375	A	26-08-2004	JP 2004261219 A	24-09-2004
			WO 2004071375 A1	26-08-2004
EP 0708146	A	24-04-1996	JP 3396099 B2	14-04-2003
			JP 8120157 A	14-05-1996
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			CA 2160618 A1	20-04-1996
			DE 69502161 D1	28-05-1998
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			US 6203893 B1	20-03-2001
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			WO 03055943 A2	10-07-2003
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			WO 02072693 A1	19-09-2002
			EP 1373403 A1	02-01-2004
			US 2004116607 A1	17-06-2004